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Open Source Mathematical Computing in the Cloud with Python, Jupyter and Git

Most undergraduate courses on mathematical computing are based on proprietary software tools such as MATLAB, Maple and Mathematica, however many mathematicians go on to work as data scientists where open source tools such as Python, Jupyter and Git are industry standards. In this talk, I will describe the redesign of MATH 210 Introduction to Mathematical Computing at UBC based on open source software and principles of student-centred course design.